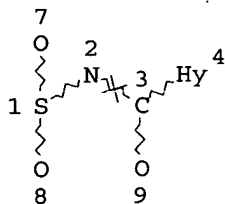


=&gt; d que 18

L6 STR



## NODE ATTRIBUTES:

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 NSPEC IS RC AT 3  
 CONNECT IS E1 RC AT 9  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS PCY LOQ AT 4  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS M1 S AT 4

## GRAPH ATTRIBUTES:

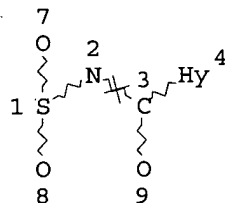
RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 7

## STEREO ATTRIBUTES: NONE

L8 24 SEA FILE=REGISTRY SSS FUL L6

=&gt; d que 139

L6 STR



## NODE ATTRIBUTES:

NSPEC IS RC AT 2  
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 DEFAULT MLEVEL IS ATOM  
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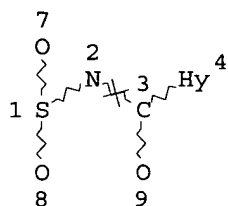
## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 7

## STEREO ATTRIBUTES: NONE

L8 24 SEA FILE=REGISTRY SSS FUL L6

L35 STR



## NODE ATTRIBUTES:

NSPEC IS RC AT 2  
 NSPEC IS RC AT 3  
 CONNECT IS E1 RC AT 9  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS PCY AT 4  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS M1 S AT 4

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 7

## STEREO ATTRIBUTES: NONE

L36 236434 SEA FILE=REGISTRY ABB=ON PLU=ON 2/RELC (S) C S/RELF (S)  
 NRRS>1  
 L38 24 SEA FILE=REGISTRY SUB=L36 SSS FUL L35  
 L39 0 SEA FILE=REGISTRY ABB=ON PLU=ON L38 NOT L8

=> d his l16

(FILE 'HCAPLUS, USPATFULL, TOXCENTER' ENTERED AT 12:49:47 ON 20 APR 2005)  
 L16 18 DUP REM L15 (3 DUPLICATES REMOVED)

=> d que nos l16

L6 STR  
 L8 24 SEA FILE=REGISTRY SSS FUL L6  
 L15 21 SEA L8  
 L16 18 DUP REM L15 (3 DUPLICATES REMOVED)

=> d his l18

(FILE 'MEDLINE, BIOSIS, EMBASE, DRUGU' ENTERED AT 12:50:52 ON 20 APR 2005)  
 L18 0 S L17

=> d que nos l18

L6 STR  
 L8 24 SEA FILE=REGISTRY SSS FUL L6  
 L17 SEL PLU=ON L8 1- CHEM : 24 TERMS  
 L18 0 SEA L17

=> d que nos l14

L6 STR  
 L13 2 SEA FILE=BEILSTEIN SSS FUL L6  
 L14 2 SEA FILE=BEILSTEIN ABB=ON PLU=ON L13 NOT RN/FA

=&gt; d ibib ed ab hitstr l16

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS, USPATFULL' - CONTINUE? (Y)/N:y

L16 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 1995:607987 HCAPLUS

DOCUMENT NUMBER: 123:286034

TITLE: Substituted triazolinones, triazolinethiones, and triazolinimines as angiotensin II antagonists

INVENTOR(S): Ashton, Wallace T.; Chang, Linda L.; MacCoss, Malcolm; Chakravarty, Prasun K.; Greenlee, William J.; Patchett, Arthur A.; Flanagan, Kelly

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: U.S., 90 pp. Cont.-in-part of U.S. Ser. No. 899,868, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5411980	A	19950502	US 1992-994228	19921221
ZA 9204916	A	19930331	ZA 1992-4916	19920702
PRIORITY APPLN. INFO.:			US 1989-386328	B2 19890728
			US 1990-504507	B2 19900404
			US 1991-725720	B2 19910703
			US 1991-812891	B2 19911220
			US 1992-899868	B2 19921217

OTHER SOURCE(S): MARPAT 123:286034

ED Entered STN: 14 Jun 1995

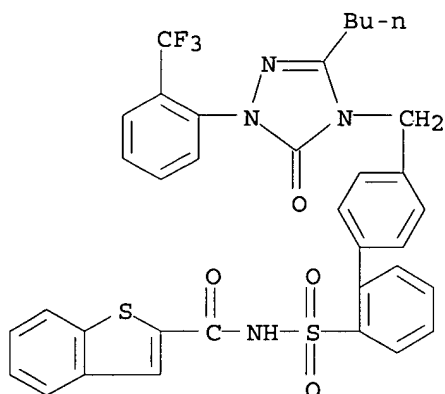
AB There are disclosed new substituted triazolinone compds. I [R2a = H, halo; R2b = H, halo, C1-4-alkyl; R3a = H, halo; R3b = H, halo, C1-4-alkyl; E is a single bond; R6 = (un)substituted C1-6-alkyl; R23 = e.g., (un)substituted Ph, branched C3-7-alkyl, C3-7-cycloalkyl; V1 = H, Me, CF3, halogen, with the proviso that V1 = CF3 when V2 = H; V2 = e.g., H, NO2, NR10R21; R10 = H, C1-4-alkyl; R21 = H or R22; R22 = e.g., C1-6-alkyl, C3-7-cycloalkyl; aryl] which are useful as angiotensin II antagonists. Thus, e.g., reaction of 4-bromomethyl-2'-(t-butoxycarbonyl)biphenyl with K phthalimide afforded 82% N-[[2'-(t-butoxycarbonyl)biphenyl-4-yl]methyl]phthalimide; hydrazinolysis afforded 88% 4-aminomethyl-2'-(t-butoxycarbonyl)biphenyl; reaction with CS2/MeI afforded 84% Me N-[[2'-(t-butoxycarbonyl)biphenyl-4-yl]methyl]dithiocarbamate; reaction of the latter with hydrazine afforded 79% 4-[[2'-(t-butoxycarbonyl)biphenyl-4-yl]methyl]-3-thiosemicarbazide; heterocyclization with tri-Me orthovalerate afforded 63% 4-[[2'-(t-butoxycarbonyl)biphenyl-4-yl]methyl]-5-butyl-2,4-dihydro-3H-1,2,4-triazole-3-thione; removal of the t-Bu group with trifluoroacetic acid afforded the corresponding 2'-carboxy derivative (21%). Representative compds. of the invention act as angiotensin II receptor antagonists with activity of at least IC50 < 50 µM. Pharmaceutical formulations were given.

IT 147776-19-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(substituted triazolinones, triazolinethiones, and triazolinimines as angiotensin II antagonists)

RN 147776-19-0 HCAPLUS

CN Benzo[b]thiophene-2-carboxamide, N-[[4'-[[3-butyl-1,5-dihydro-5-oxo-1-[2-(trifluoromethyl)phenyl]-4H-1,2,4-triazol-4-yl]methyl][1,1'-biphenyl]-2-yl]sulfonyl]- (9CI) (CA INDEX NAME)



=> d ibib ed ab hitstr l16 2-

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS, USPATFULL' - CONTINUE? (Y)/N:y

YOU HAVE REQUESTED DATA FROM 17 ANSWERS - CONTINUE? Y/(N):y

L16 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 1990:571693 HCAPLUS

DOCUMENT NUMBER: 113:171693

TITLE: Preparation of N-[(aroylsulfamoyl)phenyl]ureas and analogs ureas as herbicide safeners

INVENTOR(S): Burckhardt, Urs; Soliman, Raafat; Toepfl, Werner; Waespe, Hans Rudolf

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 61 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 365484	A1	19900425	EP 1989-810778	19891011
EP 365484	B1	19930107		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 84302	E	19930115	AT 1989-810778	19891011
ES 2054088	T3	19940801	ES 1989-810778	19891011
CA 2000928	AA	19900420	CA 1989-2000928	19891018
JP 02174754	A2	19900706	JP 1989-273625	19891020
JP 2753872	B2	19980520		
BR 8905321	A	19901016	BR 1989-5321	19891020
HU 56058	A2	19910729	HU 1990-261	19900124
RU 2060006	C1	19960520	RU 1990-4743588	19900413
US 5215570	A	19930601	US 1991-637097	19910103
LV 10995	B	19960620	LV 1993-415	19930525
LT 3943	B	19960527	LT 1993-1664	19931223

## PRIORITY APPLN. INFO.:

CH 1988-3914	A 19881020
EP 1989-810778	A 19891011
US 1989-422863	B2 19891017
SU 1990-4743588	A 19900413

OTHER SOURCE(S): MARPAT 113:171693

ED Entered STN: 09 Nov 1990

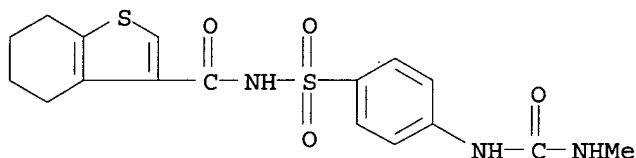
AB The title compds. [I; A = (un)substituted aryl; R1,R2 = H, alkyl, cycloalkyl, (un)substituted Ph, etc.; NR1R2 = heterocyclyl; R3 = H, alkyl; R4,R5 = H, halo, cyano, NO2, CF3, alkyl, etc.; R4,R5 = atoms to complete an (un)substituted fused ring] were prepared Thus, 4-(H2N)C6H4SO2NH2 was stirred 1 h at 50° with ClCO2Ph in dioxane and the product treated with MeNH2 in EtOH to give 4-(MeNHCONH)C6H4SO2NH2 which was stirred 2.5 h with 3,4-Me2C6H3COCl in MeCN containing 4-dimethylaminopyridine and Et3N to give title compound II. The latter at 250 g/ha gave 50% protection against 125 g/ha N-[2-(2-methoxyethoxy)phenylsulfonyl]-N'-(4,6-dimethoxy-1,3,5-triazin-2-yl)urea applied to sorghum preemergent.

IT 129513-59-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as herbicide safener)

RN 129513-59-3 HCAPLUS

CN Benzo[b]thiophene-3-carboxamide, 4,5,6,7-tetrahydro-N-[[4-  
[(methylamino)carbonyl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



L16 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 1986:148765 HCAPLUS

DOCUMENT NUMBER: 104:148765

TITLE: Prostaglandin antagonists

INVENTOR(S): Rokach, Joshua; Rooney, Clarence S.; Cragoe, Edward J., Jr.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA; Merck Frosst Canada, Inc.

SOURCE: U.S., 31 pp. Cont.-in-part of U.S. Ser. No. 210,082, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4536507	A	19850820	US 1982-396452	19820708
ZA 7804231	A	19800227	ZA 1978-4231	19780725
AT 7142	E	19840515	AT 1980-301811	19800530
ZA 8003268	A	19820127	ZA 1980-3268	19800602
AU 8169575	A1	19820603	AU 1981-69575	19810415
AU 549020	B2	19860109		
PRIORITY APPLN. INFO.:			US 1977-819199	A2 19770726
			US 1978-917212	A2 19780623
			US 1979-44444	A2 19790601
			US 1979-44445	A2 19790601

US 1980-155323	A2 19800602
US 1980-210082	A2 19801124
EP 1980-301811	A 19800530
US 1980-209434	A 19801124

OTHER SOURCE(S): CASREACT 104:148765

ED Entered STN: 03 May 1986

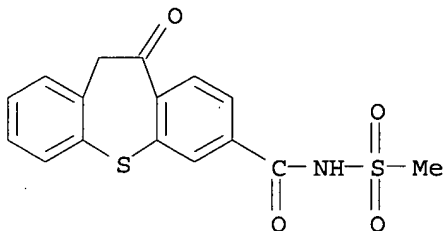
AB The title compds. (no data) I and II (R = H, halo, C1-4 alkyl, -alkanoyl, -alkoxy, -alkylthio, -alkylsulfinyl or -sulfonyl, OH, CF<sub>3</sub>, SH, etc.; A = heterocyclyl, COR<sub>2</sub>, R<sub>2</sub> = OH, alkoxy, (un)substituted amino, etc.; Z = S, SO, SO<sub>2</sub>; n = 0-4) and their salts were prepared. Thus, 3-cyanodibenzo[b,f]thiepin, prepared in 9 steps from m-dibromobenzene and thiosalicylic acid, was hydrolyzed to give 95.8% dibenzo[b,f]thiepin-3-carboxylic acid (II; R = H, A = CO<sub>2</sub>H, n = 0).

IT 71489-94-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as prostaglandin antagonist)

RN 71489-94-6 HCAPLUS

CN Dibenzo[b,f]thiepin-3-carboxamide, 10,11-dihydro-N-(methylsulfonyl)-11-oxo-  
(9CI) (CA INDEX NAME)



L16 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:633560 HCAPLUS

DOCUMENT NUMBER: 141:174170

TITLE: A preparation of heterocyclic compounds, useful as  
inhibitors of RNA dependent RNA polymerases, such as  
hepatitis C virus polymerase

INVENTOR(S): Poupart, Marc-Andre; Beaulieu, Pierre Louis; Rancourt,  
Jean

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany;  
Boehringer Ingelheim Pharma GmbH & Co Kg

SOURCE: PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004064925	A1	20040805	WO 2004-CA17	20040119
W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GH, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ				
US 2004186125	A1	20040923	US 2004-755544	20040112

PRIORITY APPLN. INFO.:

US 2003-441674P

P 20030122

OTHER SOURCE(S): MARPAT 141:174170

ED Entered STN: 06 Aug 2004

AB The invention relates to a preparation of heterocyclic compds. of formula I [wherein: R1 is (cyclo)alkyl, cycloalkenyl, 4 to 7-membered heterocyclic ring, etc.; R2 is halogen or (un)substituted (hetero)aryl; B is N and A is :CH-, or :N-, etc.; B is :C- and A is O, S, or NH, etc.; M1 and M4 are independently selected from CR3; M2 and M3, when not linked to -C(:Y)Z, is CR3; R3 is H, halogen, CN, or azido, etc.], useful as inhibitors of RNA dependent RNA polymerases, particularly those viral polymerases within Flaviviridae family, more particularly to hepatitis C virus (HCV) polymerase. For instance, NS5B RNA dependent RNA polymerase inhibition of pyridinylindole derivative II was determined (compound 101, table 1; IC50 <

1µM).

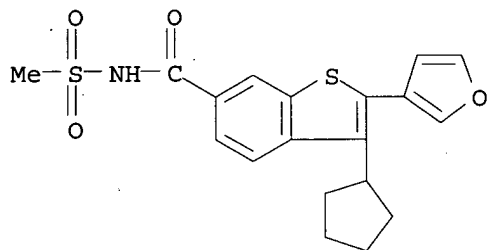
IT 733035-64-8P 733035-65-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclic compds., useful as inhibitors of RNA dependent RNA polymerases)

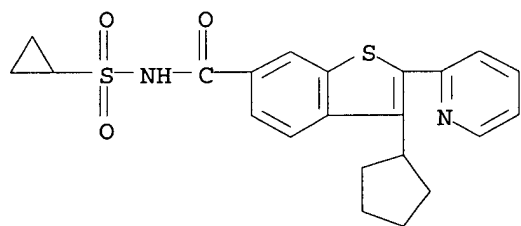
RN 733035-64-8 HCAPLUS

CN Benzo[b]thiophene-6-carboxamide, 3-cyclopentyl-2-(3-furanyl)-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



RN 733035-65-9 HCAPLUS

CN Benzo[b]thiophene-6-carboxamide, 3-cyclopentyl-N-(cyclopropylsulfonyl)-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:466686 HCAPLUS

DOCUMENT NUMBER: 141:23556

TITLE: Preparation of 2-aryl-1,2,4-triazine-3,5-di(thi)ones as herbicides

INVENTOR(S): Linker, Karl-Heinz; Andree, Roland; Hoischen,

Dorothee; Schwarz, Hans-Georg; Kluth, Joachim; Drewes, Mark Wilhelm; Dahmen, Peter; Feucht, Dieter; Pontzen, Rolf  
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany  
 SOURCE: Ger. Offen., 30 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10255416	A1	20040609	DE 2002-10255416	20021128
WO 2004048348	A1	20040610	WO 2003-EP12876	20031118

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 2002-10255416 A 20021128

OTHER SOURCE(S): MARPAT 141:23556

ED Entered STN: 10 Jun 2004

AB Title compds. [I; Q1, Q2 = O, S; R1 = H, cyano, amino, (substituted) alkyl, alkoxy, alkylamino, dialkylamino, etc.; R2 = H, halo, NO<sub>2</sub>, carboxy, cyano, thiocarbamoyl, (substituted) alkyl, alkoxy, alkylthio, alkylamino, etc.; R3 = H, cyano, halo; R4 = halo; R5 = H, alkoxycarbonyl, etc.; R6 = amino, OH, etc.], were prepared Thus, 2-(4-bromo-2-fluoro-5-ethylsulfonylaminophenyl)-4-methyl-1,2,4-triazine-3,5(2H,4H)-dione (preparation given) and Et3N were stirred with 2,4-difluorophenylpropionyl chloride in 1,2-dichloroethane for 12 h at 25° to give 49% 2-[5-(N-2,4-difluorophenylpropionyl-N-ethylsulfonylamino)-4-bromo-2-fluorophenyl]-4-methyl-1,2,4-triazine-3,5-(2H,4H)-dione. The latter was said to show very strong pre- and postemergent herbicidal activity and good crop tolerance.

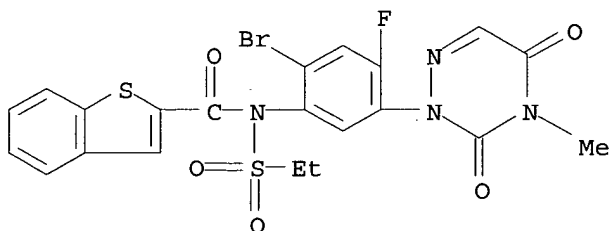
IT 698981-18-9P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (aryl)triazinedithiones as herbicides)

RN 698981-18-9 HCAPLUS

CN Benzo[b]thiophene-2-carboxamide, N-[2-bromo-5-(4,5-dihydro-4-methyl-3,5-dioxo-1,2,4-triazin-2(3H)-yl)-4-fluorophenyl]-N-(ethylsulfonyl)- (9CI)  
 (CA INDEX NAME)





L16 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2003:417727 HCAPLUS  
 DOCUMENT NUMBER: 138:401749  
 TITLE: Preparation of N-(acylaminophenyl)uracils as herbicides and insecticides  
 INVENTOR(S): Andree, Roland; Drewes, Mark Wilhelm; Dahmen, Peter; Feucht, Dieter; Pontzen, Rolf; Loesel, Peter  
 PATENT ASSIGNEE(S): Bayer CropScience AG, Germany  
 SOURCE: PCT Int. Appl., 58 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003043994	A1	20030530	WO 2002-EP12501	20021108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

DE 10157063	A1	20030605	DE 2001-10157063	20011121
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PRIORITY APPLN. INFO.:	DE 2001-10157063	A	20011121
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OTHER SOURCE(S): MARPAT 138:401749

ED Entered STN: 01 Jun 2003

AB Title compds. [I; A = (substituted) (branched) alkenylene; R = (substituted) (monocyclic) aryl, heterocyclyl; whereby A and R can also be combined in bicyclic groups; R1 = H, amino, (substituted) alkyl; R2 = CO2H, cyano, (thio)carbamoyl, (substituted) alkyl, alkoxy carbonyl; R3 = H, halo, (substituted) alkyl; R4 = H, cyano, (thio)carbamoyl, halo; R5 = cyano, (thio)carbamoyl, halo, (substituted) alkyl, alkoxy; R6 = H, (substituted) alkyl, alkyl carbonyl, alkoxy carbonyl, alkylsulfonyl, alkenyl, alkenyl carbonyl, alkenylsulfonyl, alkynyl, cycloalkyl carbonyl, cycloalkylsulfonyl, aryl carbonyl, arylsulfonyl, arylalkyl carbonyl, arylalkylsulfonyl, heterocyclyl carbonyl, heterocyclylsulfonyl], were prepared Thus, a mixture of 1-(4-cyano-5-ethylsulfonylamino-2-fluorophenyl)-3-methyl-4-trifluoromethyl-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidine, (2E/Z)-3-(3,4-dichlorophenyl)-2-propenoyl chloride, Et3N, and MeCN was stirred for 18 h at room temperature to give 71% (E/Z)-1-[4-cyano-5-(N-ethylsulfonyl-N-[3-(3,4-dichlorophenyl)-2-propenoyl]amino)-2-fluorophenyl]-3-methyl-4-trifluoromethyl-3,6-dihydro-2,6-1(2H)-pyrimidine. The latter at 1000 ppm was said to show very strong post- and preemergent herbicidal activity and good crop tolerance. I (A = CH:CH; R = 2-chlorophenyl; R1 = Me; R2 = CF3; R3 = H; R4 = F; R5 = cyano; R6 = SO2CH2CH3) at 100 ppm gave 100% control of Myzus persicae on Vicia faba minor.

IT 531509-89-4P

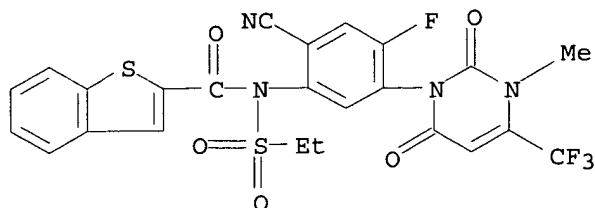
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (acylaminophenyl)uracils as herbicides and insecticides)

RN 531509-89-4 HCAPLUS

CN Benzo[b]thiophene-2-carboxamide, N-[2-cyano-5-[3,6-dihydro-3-methyl-2,6-

dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-4-fluorophenyl]-N-(ethylsulfonyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:34900 HCAPLUS

DOCUMENT NUMBER: 130:125067

TITLE: Preparation of heterocyclic moiety-containing sulfonamide compounds as hypoglycemics

INVENTOR(S): Kayakiri, Hiroshi; Abe, Yoshito; Hamashima, Hitoshi; Sawada, Hitoshi; Mizutani, Tsuyoshi; Yamasaki, Noritsugu; Onomura, Osamu; Nishikawa, Masahiro; Hiramura, Takahiro; Oku, Teruo; Imoto, Takafumi

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan; et al.

SOURCE: PCT Int. Appl., 472 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

*applicant's parent application & foreign equivalents*

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9900372	A1	19990107	WO 1998-JP2877	19980624
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2295239	AA	19990107	CA 1998-2295239	19980624
AU 9879345	A1	19990119	AU 1998-79345	19980624
AU 745081	B2	20020314		
EP 995742	A1	20000426	EP 1998-929715	19980624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
TR 200000486	T2	20000821	TR 2000-200000486	19980624
BR 9810456	A	20010925	BR 1998-10456	19980624
RU 2199532	C2	20030227	RU 2000-101813	19980624
TW 426666	B	20010321	TW 1998-87110245	19980625
ZA 9805618	A	19990119	ZA 1998-5618	19980626
MX 9911779	A	20000630	MX 1999-11779	19991215
US 6348474	B1	20020219	US 2000-446110	20000214
US 2002099212	A1	20020725	US 2002-47093	20020117
US 6787565	B2	20040907		

US 2004180947 A1 20040916 US 2004-811989 20040330  
 PRIORITY APPLN. INFO.: JP 1997-208295 A 19970627  
 JP 1998-114718 A 19980424  
 WO 1998-JP2877 W 19980624  
 US 2000-446110 A3 20000214  
 US 2002-47093 A3 20020117

OTHER SOURCE(S): MARPAT 130:125067

ED Entered STN: 19 Jan 1999

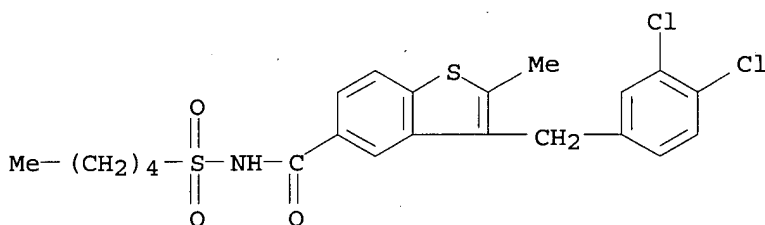
AB The title compds. R1SO<sub>2</sub>NHCOAXR<sub>2</sub> [R<sub>1</sub> represents alkyl, alkenyl, alkynyl, etc.; A represents an optionally substituted polyheterocyclic group except benzimidazolyl, indolyl, 4,7-dihydrobenz-imidazolyl and 2,3-dihydrobenzoxazinyl; X represents alkylene, oxygen, oxygenated lower alkylene, etc.; and R<sub>2</sub> represents optionally substituted aryl, substituted biphenyl, etc.] are prepared. These compds. are useful as hypoglycemics and have cGMP-PDE inhibitory, bronchodilating, vasodilating, smooth muscle cell inhibitory, and antiallergic effects, etc. 3-(2,4-Dichlorobenzyl)-2-methyl-5-(1-pentanesulfonylcarbamoyl)benzo[b]furan at 10 mg/kg gave 71% decrease of blood sugar in mice.

IT 219758-19-7P 219758-20-0P 219758-21-1P  
 219758-45-9P 219758-46-0P 219758-47-1P  
 219758-48-2P 219758-49-3P 219758-50-6P  
 219758-83-5P 219758-84-6P 219758-85-7P  
 219759-14-5P 219760-14-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of heterocyclic moiety-containing sulfonamide compds. as hypoglycemics)

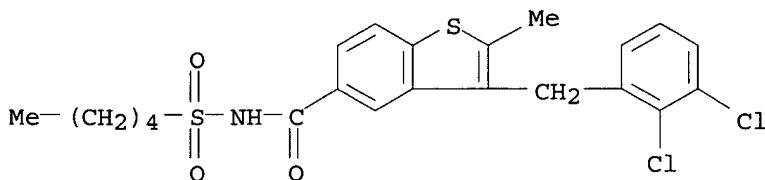
RN 219758-19-7 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(3,4-dichlorophenyl)methyl]-2-methyl-N-(pentylsulfonyl)- (9CI) (CA INDEX NAME)



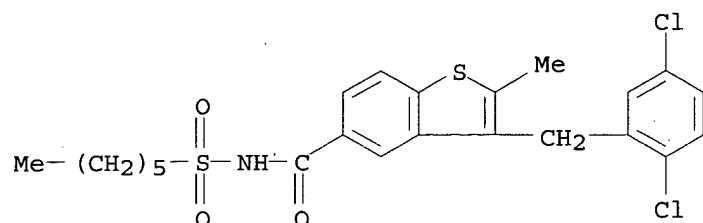
RN 219758-20-0 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(2,3-dichlorophenyl)methyl]-2-methyl-N-(pentylsulfonyl)- (9CI) (CA INDEX NAME)



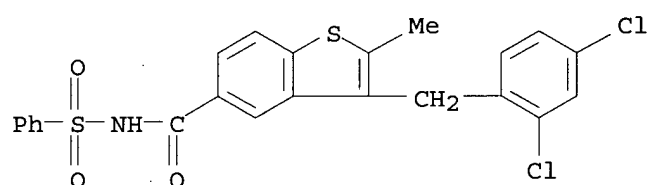
RN 219758-21-1 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(2,5-dichlorophenyl)methyl]-N-(hexylsulfonyl)-2-methyl- (9CI) (CA INDEX NAME)



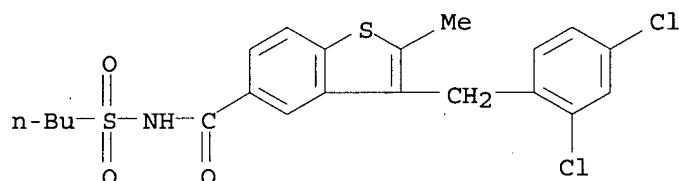
RN 219758-45-9 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(2,4-dichlorophenyl)methyl]-2-methyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



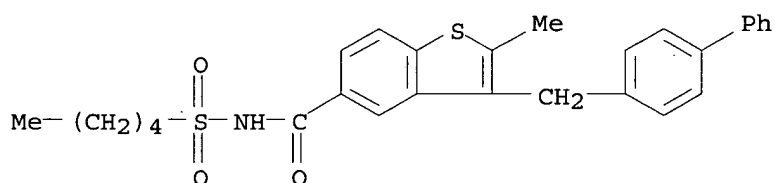
RN 219758-46-0 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, N-(butylsulfonyl)-3-[(2,4-dichlorophenyl)methyl]-2-methyl- (9CI) (CA INDEX NAME)



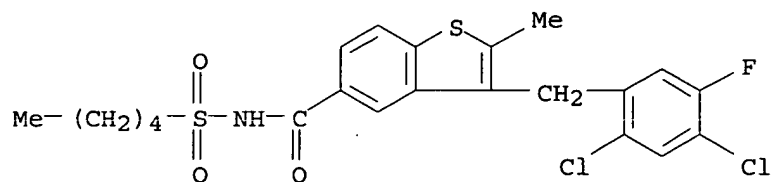
RN 219758-47-1 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-([1,1'-biphenyl]-4-ylmethyl)-2-methyl-N-(pentylsulfonyl)- (9CI) (CA INDEX NAME)



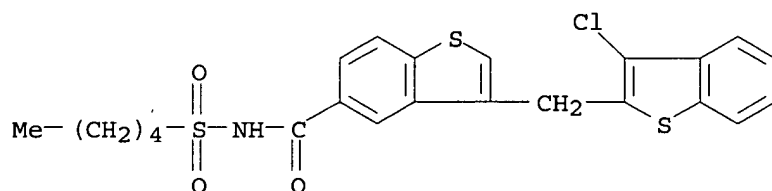
RN 219758-48-2 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(2,4-dichloro-5-fluorophenyl)methyl]-2-methyl-N-(pentylsulfonyl)- (9CI) (CA INDEX NAME)



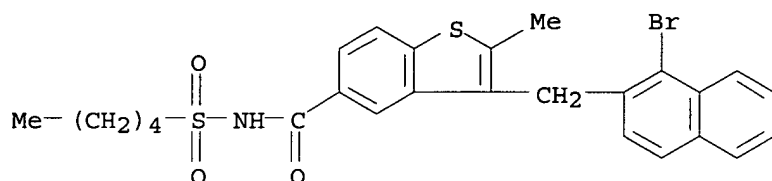
RN 219758-49-3 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(3-chlorobenzo[b]thien-2-yl)methyl]-N-(pentylsulfonyl)- (9CI) (CA INDEX NAME)



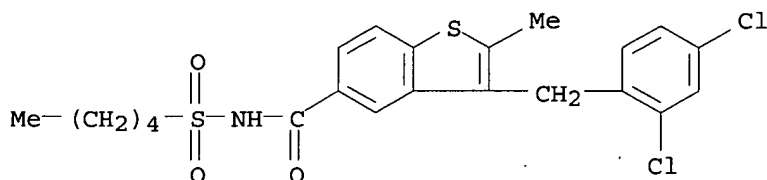
RN 219758-50-6 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(1-bromo-2-naphthalenyl)methyl]-2-methyl-N-(pentylsulfonyl)- (9CI) (CA INDEX NAME)



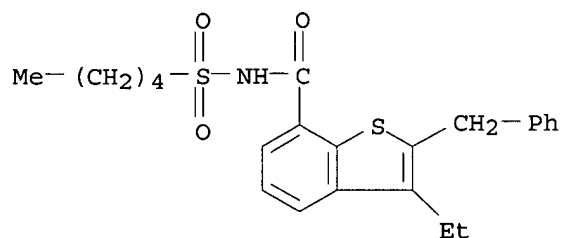
RN 219758-83-5 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(2,4-dichlorophenyl)methyl]-2-methyl-N-(pentylsulfonyl)- (9CI) (CA INDEX NAME)



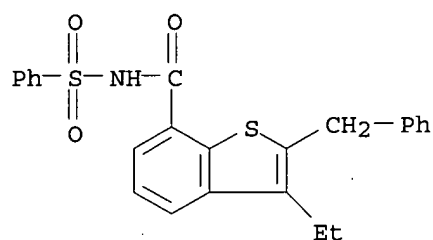
RN 219758-84-6 HCAPLUS

CN Benzo[b]thiophene-7-carboxamide, 3-ethyl-N-(pentylsulfonyl)-2-(phenylmethyl)- (9CI) (CA INDEX NAME)



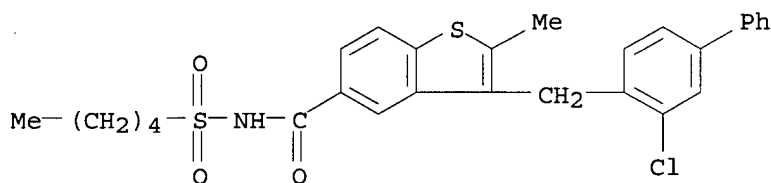
RN 219758-85-7 HCAPLUS

CN Benzo[b]thiophene-7-carboxamide, 3-ethyl-2-(phenylmethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



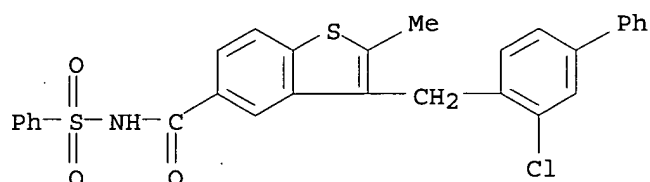
RN 219759-14-5 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(3-chloro[1,1'-biphenyl]-4-yl)methyl]-2-methyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 219760-14-2 HCAPLUS

CN Benzo[b]thiophene-5-carboxamide, 3-[(3-chloro[1,1'-biphenyl]-4-yl)methyl]-2-methyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

31

THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:666870 HCAPLUS  
 DOCUMENT NUMBER: 125:301001  
 TITLE: Preparation of 3-(2'-sulfamoylbiphenyl-4-yl)methyl-2-imino-1,3,4-thiazolidine derivatives as antihypertensives  
 INVENTOR(S): Sakae, Shinya; Yokomoto, Masaharu; Inoe, Satoshi; Nishimura, Koji; Hirata, Akikage; Iguma, Kenichi; Tamura, Koichi  
 PATENT ASSIGNEE(S): Wakunaga Seiyaku Kk, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08208632	A2	19960813	JP 1995-280093	19951027
PRIORITY APPLN. INFO.:			JP 1995-280093	A 19951027
			JP 1994-264755	19941028

OTHER SOURCE(S): MARPAT 125:301001

ED Entered STN: 13 Nov 1996

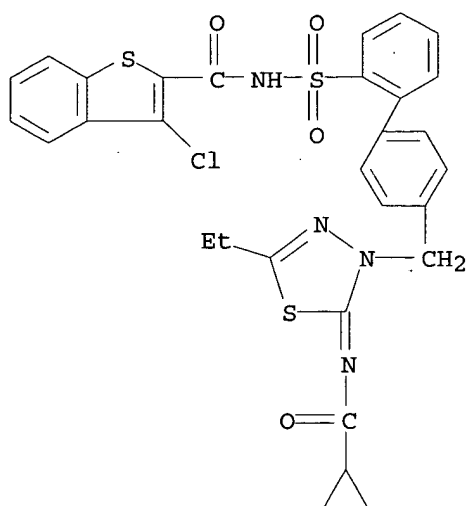
AB The title compds. [I; R1 = H, COR2; wherein R2 = (un)substituted lower alkyl, cycloalkyl, or cycloalkenyl, (un)substituted aryl-lower alkyl or aryl-lower alkenyl, Ph, or aromatic heterocyclyl, lower alkoxy or aralkyloxy; R3 = halo, lower alkyl or cycloalkyl, (un)substituted Ph, lower alkyl alkoxy; R4 = H, lower alkyl, acyl; R5, R6 = H, halo, lower alkyl], which show potent angiotensin II-antagonizing, smooth muscle-relaxing, and antihypertensive activity, are prepared Thus, 533 mg 5-ethyl-2-trifluoroacetamido-1,3,4-thiadiazole and 1.00 g 4-bromomethyl-2'-(N-tert-butylsulfamoylbiphenyl-4-yl)biphenyl were added to DMF and stirred at room temperature for 4 h to give 606 mg I (R1 = CF3CO, R3 = Et, R5 = R6 = H, R4 = tert-butyl). I (R1 = Q, R3 = Et, R4 = CO2Et, R5 = R6 = H) and I (R1 = 2-ClC6H4CO, R3 = Et, R4 = COC6H4CO2Me-2, R5 = R6 = H) in vitro showed IC50 of 3.0 and 5.3 nM, resp., for inhibiting angiotensin II and in vivo inhibited angiotensin II-induced hypertension of rats by 53.4 and 62.3%, resp., at 0.1 mg/kg i.v.

IT 183000-11-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of [(sulfamoylbiphenyl)yl)methyl]iminothiazolidine derivs. as antihypertensives, angiotensin II antagonists, and smooth muscle relaxants)

RN 183000-11-5 HCAPLUS

CN Benzo[b]thiophene-2-carboxamide, 3-chloro-N-[[4'-[[2-[(cyclopropylcarbonyl)imino]-5-ethyl-1,3,4-thiadiazol-3(2H)-yl]methyl][1,1'-biphenyl]-2-yl]sulfonyl]- (9CI) (CA INDEX NAME)



L16 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:700817 HCAPLUS

DOCUMENT NUMBER: 121:300817

TITLE: Triazolinone Biphenylsulfonamide Derivatives as Orally Active Angiotensin II Antagonists with Potent AT1 Receptor Affinity and Enhanced AT2 Affinity

AUTHOR(S): Ashton, Wallace T.; Chang, Linda L.; Flanagan, Kelly L.; Hutchins, Steven M.; Naylor, Elizabeth M.; Chakravarty, Prasun K.; Patchett, Arthur A.; Greenlee, William J.; Chen, Tsing-Bau; Faust, Kristie A.; Chang, Raymond S. L.; Lotti, Victor J.; Zingaro, Gloria J.; Schorn, Terry W.; Siegl, Peter K. S.; Kivlighn, Salah D.

CORPORATE SOURCE: Merck Research Laboratories, Rahway, NJ, 07065, USA

SOURCE: Journal of Medicinal Chemistry (1994), 37(17), 2808-24  
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 24 Dec 1994

AB Several series of 2,4-dihydro-2,4,5-trisubstituted-3H-1,2,4-triazol-3-ones with acidic sulfonamide replacements of tetrazole at the 2'-position of the biphenyl-4-ylmethyl side chain at N4 were prepared and tested as angiotensin II (AII) antagonists. Preferred substituents on the triazolinone ring were Bu at C5 and 2-(trifluoromethyl)phenyl at N2. Subnanomolar IC50 values at the AT1 receptor subtype were observed for a variety of acylsulfonamides, including aroyl, heteroaroyl, and cycloalkylcarbonyl derivs. Certain other acidic sulfonamides, such as sulfonylcarbamates and disulfimides also displayed high affinity for the AT1 receptor. In addition, AT2 binding for some of these compds. was increased by as much as 1000-fold over the corresponding tetrazole, e.g. AT2 IC50 17 nM for I (R = Me3CO). When evaluated for inhibition of the AII pressor response, the benchmark benzoylsulfonamide I (R = Ph) (L-159,913) was efficacious in several species and was superior to losartan in conscious rhesus monkeys. Several subsequent analogs, including the I (R = 2-ClC6H4, 3-chlorothiophene-2-yl, (S)-2,2-dimethylcyclopropyl, Me3CO) derivs., were highly effective in rats, surpassing I (R = Ph) and losartan in duration of action and/or potency. Compound I (R = 2-ClC6H4) (L-162,223) displayed very prolonged AII



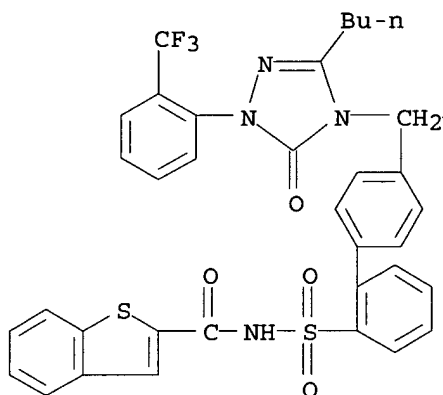
antagonism in the rat model (>24 h at 1 mg/kg i.v.). At 1 mg/kg po in rats, I (R = 2-ClC<sub>6</sub>H<sub>4</sub>) and I (R = Me<sub>3</sub>CO) (L-162,234) produced 85-87% peak inhibition of the AII pressor response with duration exceeding 6 h. The identification of triazolinone-based sulfonamide derivs. combining high AT<sub>1</sub> affinity, considerably enhanced AT<sub>2</sub> potency, and favorable in vivo properties provides insights relevant to the design of dual AT<sub>1</sub>/AT<sub>2</sub> receptor antagonists.

IT 147776-19-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and angiotensin II antagonist activity of)

RN 147776-19-0 HCAPLUS

CN Benzo[b]thiophene-2-carboxamide, N-[[4'-[[3-butyl-1,5-dihydro-5-oxo-1-[2-(trifluoromethyl)phenyl]-4H-1,2,4-triazol-4-yl]methyl][1,1'-biphenyl]-2-yl]sulfonyl]- (9CI) (CA INDEX NAME)



L16 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:254937 HCAPLUS

DOCUMENT NUMBER: 118:254937

TITLE: Substituted triazolinones

INVENTOR(S): Ashton, Wallace T.; Chang, Linda L.; MacCoss, Malcolm;  
Chakravarty, Prasun K.; Greenlee, William J.;  
Patchett, Arthur A.; Walsh, Thomas F.; Flanagan,  
Kelly; Rivero, Ralph A.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: PCT Int. Appl., 128 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9301177	A1	19930121	WO 1992-US5483	19920630
W: BG, CS, FI, HU, NO, PL, RO, RU				
CA 2072775	AA	19930104	CA 1992-2072775	19920630
EP 526001	A1	19930203	EP 1992-306106	19920701
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, PT, SE				
AU 9219387	A1	19930107	AU 1992-19387	19920702
AU 648677	B2	19940428		
ZA 9204916	A	19930331	ZA 1992-4916	19920702
JP 05294947	A2	19931109	JP 1992-214460	19920703

## PRIORITY APPLN. INFO.:

US 1991-725720

A 19910703

US 1991-812891

A 19911220

## OTHER SOURCE(S):

MARPAT 118:254937

ED Entered STN: 26 Jun 1993

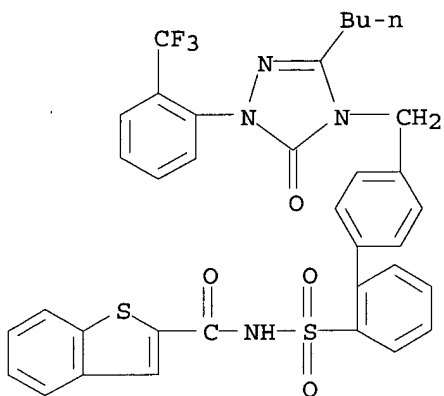
AB Triazolinones I (R = H, Me, CF<sub>3</sub>, halo; R<sub>1</sub> = H or NO<sub>2</sub>, amino or other group at 3-, 4-, or 5-position; R<sub>2</sub> = H, C<sub>1</sub>-C<sub>4</sub> alkyl or alkoxy, halo; R<sub>3</sub> = Ph or substituted Ph) were prepared for the treatment of hypertension (comps. prepared). Thus, cyclocondensation of 2-(trifluoromethyl)phenylhydrazine with Et N-carbethoxyvalerimide in the presence of ET<sub>3</sub>N afforded 66% triazolinone II. The latter underwent sequential alkylation with [2-(N-tert-butylsulfamoyl)biphenyl-4-yl]methyl bromide, cleavage of the tert-Bu group by CF<sub>3</sub>CO<sub>3</sub>H, and N-acylation with BzCL to give I (R = CF<sub>3</sub>, R<sub>1</sub> = R<sub>2</sub> = H, R<sub>3</sub> = Bz).

IT 147776-19-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 147776-19-0 HCAPLUS

CN Benzo[b]thiophene-2-carboxamide, N-[[4'-[3-butyl-1,5-dihydro-5-oxo-1-[2-(trifluoromethyl)phenyl]-4H-1,2,4-triazol-4-yl]methyl][1,1'-biphenyl]-2-yl]sulfonyl]- (9CI) (CA INDEX NAME)



L16 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:540735 HCAPLUS

DOCUMENT NUMBER: 91:140735

TITLE: 10,11-Dihydro-11-oxodibenzo[b,f]thiepins

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: Jpn. Kokai Tokkyo Koho, 37 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54044692	A2	19790409	JP 1978-90550	19780726
EP 978	A1	19790307	EP 1978-300184	19780721
EP 978	B1	19820915		
R: BE, CH, DE, FR, GB, LU, NL, SE				
DK 7803306	A	19790127	DK 1978-3306	19780725
US 4394515	A	19830719	US 1981-251221	19810406
PRIORITY APPLN. INFO.:			US 1977-819200	A 19770726

US 1978-917211

A 19780623

OTHER SOURCE(S): CASREACT 91:140735

ED Entered STN: 12 May 1984

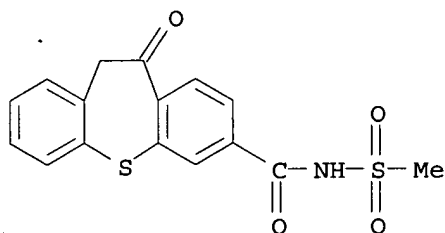
AB Dihydrodibenzothiepins I [X = S, SO, SO<sub>2</sub>; R = 5-tetrazolyl, 3-hydroxy-1,2,5-thiadiazol-4-yl, 4-hydroxy-2,5-dioxo-3-pyrrolin-3-yl, COR<sub>2</sub> (R<sub>2</sub> = OH, alkoxy, amino, etc.); n = 0-4; R<sub>1</sub> = H, halo, NH<sub>2</sub>, alkyl, alkanoyl, alkoxy, thiol, alkylamino, etc.] were prepared. I are antagonists for prostaglandins and antiasthma (allergic) agents (no data). Thus, cyclization of 2-(3-BrC<sub>6</sub>H<sub>4</sub>S)C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>COCl by AlCl<sub>3</sub> in (CH<sub>2</sub>Cl)<sub>2</sub> gave I (R = Br, n = 0, R' = H, X = S).

IT 71489-94-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 71489-94-6 HCAPLUS

CN Dibenzo[b,f]thiepin-3-carboxamide, 10,11-dihydro-N-(methylsulfonyl)-11-oxo-  
(9CI) (CA INDEX NAME)



L16 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:540734 HCAPLUS

DOCUMENT NUMBER: 91:140734

TITLE: Dibenzo[b,f]thiepins

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54044691	A2	19790409	JP 1978-90549	19780726
JP 62050470	B4	19871024		
ES 471871	A1	19791001	ES 1978-471871	19780719
AU 7838177	A1	19800124	AU 1978-38177	19780719
AU 517813	B2	19810827		
EP 11067	A1	19800528	EP 1978-300183	19780721
EP 11067	B1	19820421		
R: BE, CH, DE, FR, GB, LU, NL, SE				
NO 7802539	A	19790129	NO 1978-2539	19780724
DK 7803305	A	19790127	DK 1978-3305	19780725
FI 7802323	A	19790127	FI 1978-2323	19780725
ZA 7804231	A	19800227	ZA 1978-4231	19780725
DD 140746	C	19800326	DD 1978-206923	19780725
CA 1128048	A1	19820720	CA 1978-308068	19780725
PL 116355	B1	19810630	PL 1978-208653	19780726
PL 117756	B1	19810831	PL 1978-219619	19780726
PL 120813	B1	19820331	PL 1978-225727	19780726

ES 479215	A1	19790701	ES 1979-479215	19790402
ES 479216	A1	19790701	ES 1979-479216	19790402
ES 479217	A1	19790701	ES 1979-479217	19790402
ES 479218	A1	19791101	ES 1979-479218	19790402

PRIORITY APPLN. INFO.:

US 1977-819199	A	19770726
US 1978-917212	A	19780623

ED Entered STN: 12 May 1984

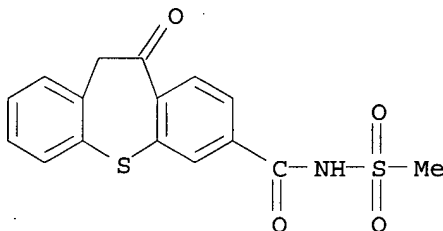
AB Dibenzo[thiepins I [X = S, SO, SO<sub>2</sub>; R = H, halo, NH<sub>2</sub>, alkyl, alkanoyl, alkoxy, thiol, alkylamino etc.; n = 0-4; R<sub>1</sub> = 5-tetrazolyl, 3-hydroxy-1,2,5-thiadiazol-4-yl, 4-hydroxy-2,5-dioxo-3-pyrrolin-3-yl, COR<sub>2</sub> (R<sub>2</sub> = OH, alkoxy, amino, etc.)] were prepared I are antagonists of for prostaglandins and antiasthma agents. Thus, cyclization of 2-(3-BrC<sub>6</sub>H<sub>4</sub>S)C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>COC<sub>2</sub>H<sub>5</sub> by AlCl<sub>3</sub> in (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O gave II (R<sub>1</sub> = Br, X = S), which was reduced by NaBH<sub>4</sub> to give the 11-OH derivative The latter was dehydrated by p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H to give III (R<sub>1</sub> = Br, X = S), which was cyanated to give the 3-CN derivative (IV). Hydrolysis of IV gave III (R<sub>1</sub> = CO<sub>2</sub>H, X = S). Oxidation of IV by m-chloroperbenzoic acid gave sulfone III (R<sub>1</sub> = CN, X = SO<sub>2</sub>) (V). Hydrolysis of V gave III (R<sub>1</sub> = CO<sub>2</sub>H, X = SO<sub>2</sub>). Cyclization of V with NaN<sub>3</sub> gave III (R<sub>1</sub> = 5-tetrazolyl, X = SO<sub>2</sub>).

IT 71489-94-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 71489-94-6 HCAPLUS

CN Dibenzo[b,f]thiepin-3-carboxamide, 10,11-dihydro-N-(methylsulfonyl)-11-oxo-  
(9CI) (CA INDEX NAME)



L16 ANSWER 13 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2004:240310 USPATFULL

TITLE: Viral polymerase inhibitors

INVENTOR(S): Poupart, Marc-Andre, Laval, CANADA

Beaulieu, Pierre Louis, Rosemere, CANADA

Rancourt, Jean, Laval, CANADA

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Ingelheim,  
GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004186125	A1	20040923
APPLICATION INFO.:	US 2004-755544	A1	20040112 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-441674P	20030122 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY RD, P O BOX 368, RIDGEFIELD, CT, 06877	
NUMBER OF CLAIMS:	42	

EXEMPLARY CLAIM: 1

LINE COUNT: 2152

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An isomer, enantiomer, diastereoisomer or tautomer of a compound,  
represented by formula I: ##STR1##

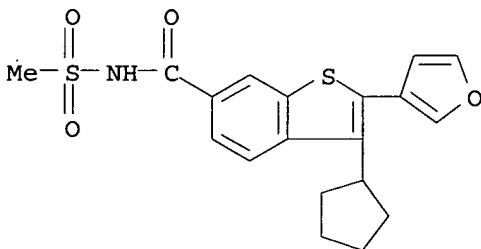
wherein wherein A, B, R<sup>sup.2</sup>, R<sup>sup.3</sup>, M<sup>sup.1</sup>, M<sup>sup.2</sup>, M<sup>sup.3</sup>,  
M<sup>sup.4</sup>, Y<sup>sup.1</sup> and Z are as defined in claim 1, or a salt thereof, as  
an inhibitor of HCV NS5B polymerase.

IT 733035-64-8P 733035-65-9P

(preparation of heterocyclic compds., useful as inhibitors of RNA dependent  
RNA polymerases)

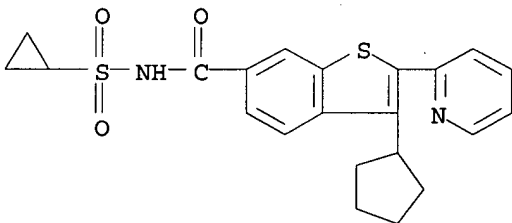
RN 733035-64-8 USPATFULL

CN Benzo[b]thiophene-6-carboxamide, 3-cyclopentyl-2-(3-furanyl)-N-  
(methylsulfonyl)- (9CI) (CA INDEX NAME)



RN 733035-65-9 USPATFULL

CN Benzo[b]thiophene-6-carboxamide, 3-cyclopentyl-N-(cyclopropylsulfonyl)-2-  
(2-pyridinyl)- (9CI) (CA INDEX NAME)



L16 ANSWER 14 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2004:233873 USPATFULL

TITLE: Sulfonamide compounds and pharmaceutical use thereof

INVENTOR(S): Kayakiri, Hiroshi, Suita-shi, JAPAN

Abe, Yoshito, Tsukuba-shi, JAPAN

Hamashima, Hitoshi, Kyoto-shi, JAPAN

Sawada, Hitoshi, Tsukuba-shi, JAPAN

Mizutani, Tsuyoshi, Tsukuba-shi, JAPAN

Oku, Teruo, Takatsuki-shi, JAPAN

Yamasaki, Noritsugu, Himeji-shi, JAPAN

Onomura, Osamu, Nagasaki-shi, JAPAN

Nishikawa, Masahiro, Arai-shi, JAPAN

Hiramura, Takahiro, Arai-shi, JAPAN

Imoto, Takafumi, Arai-shi, JAPAN

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Osaka-shi, JAPAN  
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004180947	A1	20040916
APPLICATION INFO.:	US 2004-811989	A1	20040330 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-47093, filed on 17 Jan 2002, PENDING Division of Ser. No. US 2000-446110, filed on 14 Feb 2000, GRANTED, Pat. No. US 6348474 A 371 of International Ser. No. WO 1998-JP2877, filed on 24 Jun 1998, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-208295	19970627
	JP 1998-114718	19980424
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	13147	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	A sulfonamide compound of the formula (I):	

R.sup.1--SO.sub.2NHCO-A-X--R.sup.2 (I)

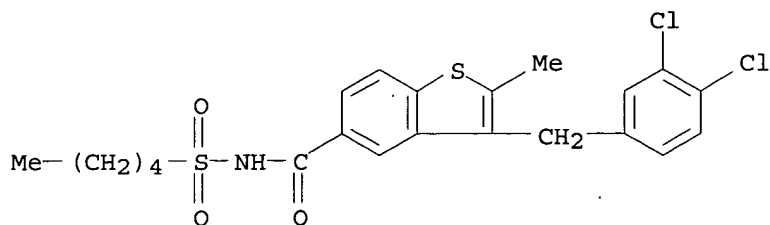
wherein R.sup.1 is alkyl, alkenyl, alkynyl and the like; A is an optionally substituted heteropolycyclic group except benzimidazolyl, indolyl, 4,7-dihydrobenzimidazolyl and 2,3-dihydrobenzoxazinyl; X is alkylene, oxa, oxa(lower)alkylene and the like; and R.sup.2 is optionally substituted aryl, substituted biphenyl and the like, a salt thereof and a pharmaceutical composition comprising the same. The sulfonamide compound is effective for the diseases treatable based on their blood sugar level-depressing activity, cGMP-PDE (especially PDE-V)-inhibiting activity, smooth muscle relaxing activity, bronchodilating activity, vasodilating activity, smooth muscle cell suppressing activity, and antiallergic activity.

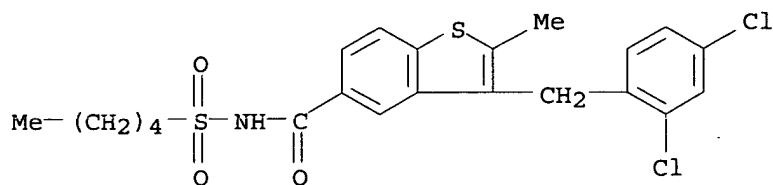
IT 219758-19-7P 219758-20-0P 219758-21-1P  
 219758-45-9P 219758-46-0P 219758-47-1P  
 219758-48-2P 219758-49-3P 219758-50-6P  
 219758-83-5P 219758-84-6P 219758-85-7P  
 219759-14-5P 219760-14-2P

(preparation of heterocyclic moiety-containing sulfonamide compds. as hypoglycemics)

RN 219758-19-7 USPATFULL

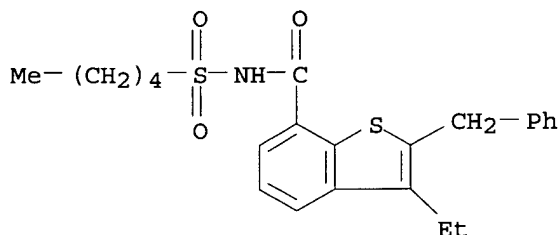
CN Benzo[b]thiophene-5-carboxamide, 3-[(3,4-dichlorophenyl)methyl]-2-methyl-N-(pentylsulfonyl)- (9CI) (CA INDEX NAME)





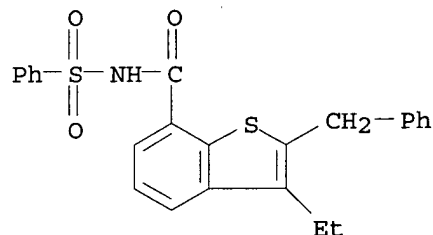
RN 219758-84-6 USPATFULL

CN Benzo[b]thiophene-7-carboxamide, 3-ethyl-N-(pentylsulfonyl)-2-(phenylmethyl)- (9CI) (CA INDEX NAME)



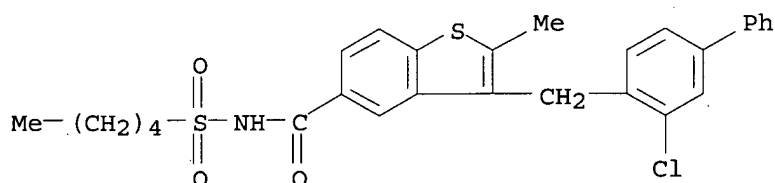
RN 219758-85-7 USPATFULL

CN Benzo[b]thiophene-7-carboxamide, 3-ethyl-2-(phenylmethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



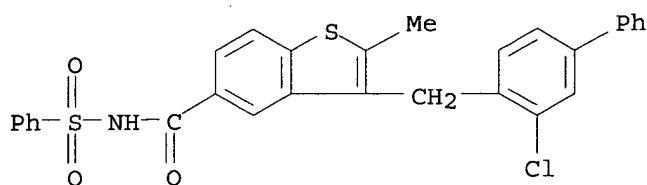
RN 219759-14-5 USPATFULL

CN Benzo[b]thiophene-5-carboxamide, 3-[(3-chloro[1,1'-biphenyl]-4-yl)methyl]-2-methyl-N-(pentylsulfonyl)- (9CI) (CA INDEX NAME)



RN 219760-14-2 USPATFULL

CN Benzo[b]thiophene-5-carboxamide, 3-[(3-chloro[1,1'-biphenyl]-4-yl)methyl]-2-methyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



L16 ANSWER 15 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2002:186289 USPATFULL

TITLE: Sulfonamide compounds and pharmaceutical use thereof

INVENTOR(S): Kayakiri, Hiroshi, Osaka, JAPAN

Abe, Yoshito, Ibaraki, JAPAN

Hamashima, Hitoshi, Kyoto, JAPAN

Sawada, Hitoshi, Ibaraki, JAPAN

Mizutani, Tsuyoshi, Ibaraki, JAPAN

Oku, Teruo, Osaka, JAPAN

Yamasaki, Noritsugu, Hyogo, JAPAN

Onomura, Osamu, Nagasaki, JAPAN

Nishikawa, Masahiro, Niigata, JAPAN

Hiramura, Takahiro, Niigata, JAPAN

Imoto, Takafumi, Niigata, JAPAN

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co. Ltd., Osaka-shi, JAPAN  
(non-U.S. corporation)

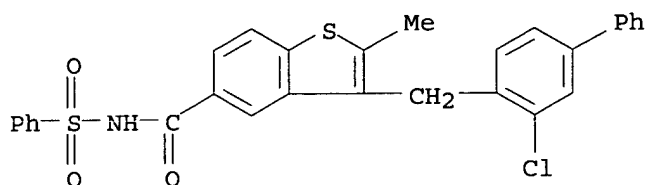
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002099212	A1	20020725
	US 6787565	B2	20040907
APPLICATION INFO.:	US 2002-47093	A1	20020117 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-446110, filed on 14 Feb 2000, PATENTED		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-208295	19970627
	JP 1998-114718	19980424
	WO 1998-JP2877	19980624
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH FLOOR, 1755 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	13171	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	A sulfonamide compound of the formula (I):	

R.sup.1--SO.sub.2NHCO--A--X--R.sup.2 (I)

wherein R.sup.1 is alky, alkenyl, alkynyl and the like; A is an optionally substituted heteropolycyclic group except benzimidazolyl, indolyl, 4,7-dihydrobenzimidazolyl and 2,3-dihydrobenzoxazinyl; X is alkylene, oxa, oxa(lower)alkylene and the like; and R.sup.2 is optionally substituted aryl, substituted biphenyl and the like, a salt thereof and a pharmaceutical composition comprising the same. The





L16 ANSWER 17 OF 18 USPATFULL on STN  
 ACCESSION NUMBER: 93:43810 USPATFULL  
 TITLE: Sulfamoylphenylureas  
 INVENTOR(S): Burckhardt, Urs, Basel, Switzerland  
 Soliman, Raafat, Alexandria, Egypt  
 Topfl, Werner, Dornach, Switzerland  
 Waespe, Hans-Rudolf, Allschwil, Switzerland  
 PATENT ASSIGNEE(S): Ciba-Geigy Corporation, Ardsley, NY, United States  
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5215570		19930601
APPLICATION INFO.:	US 1991-637097		19910103 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1989-422863, filed on 17 Oct 1989, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	CH 1988-3914	19881020
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Ivy, C. Warren	
ASSISTANT EXAMINER:	Chang, Celia	
LEGAL REPRESENTATIVE:	Roberts, Edward McC.	
NUMBER OF CLAIMS:	36	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1724	

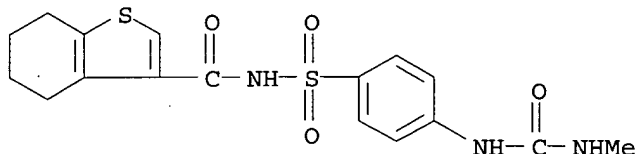
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The N-acylsulfamoylphenylureas of formula I below are suitable as counter-agents (antidotes or safeners) for protecting cultivated plants from the phytotoxic action of herbicides. Suitable crops are preferably cereals, soybeans, sorghum, maize and rice, and suitable herbicides are sulfonylureas, chloroacetanilides and aryloxyphenoxypropionic acid derivatives.

The N-acylsulfamoylphenylureas have the formula I ##STR1## wherein A is a radical selected from the group ##STR2## R.sub.1 is C.sub.1 -C.sub.4 -alkoxy or each of R.sub.1 and R.sub.2, independently of the other, is hydrogen, C.sub.1 -C.sub.8 alkyl, C.sub.3 -C.sub.8 cycloalkyl, C.sub.3 -C.sub.6 alkenyl, C.sub.3 -C.sub.6 alkynyl, ##STR3## or C.sub.1 -C.sub.4 alkyl substituted by C.sub.1 -C.sub.4 alkoxy or by ##STR4## or R.sub.1 and R.sub.2 together form a C.sub.4 -C.sub.6 alkylene bridge, or a C.sub.4 -C.sub.6 alkylene bridge interrupted by oxygen, sulfur, SO, SO.sub.2, NH or by --N(C.sub.1 -C.sub.4 alkyl)-, R.sub.3 is hydrogen or C.sub.1 -C.sub.4 alkyl, R.sub.a to R.sub.h, R.sub.x and R.sub.y are as defined in the disclosure.

IT 129513-59-3P  
 (preparation of, as herbicide safener)

RN 129513-59-3 USPATFULL

CN Benzo[b]thiophene-3-carboxamide, 4,5,6,7-tetrahydro-N-[[4-  
[[[(methylamino)carbonyl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 18 OF 18 USPATFULL on STN

ACCESSION NUMBER: 83:30605 USPATFULL

TITLE: 10,11-Dihydro-11-oxodibenzo[b,f]thiepin compounds

INVENTOR(S): Rokach, Joshua, Chomedey-Laval, Canada

Rooney, Clarence S., Worcester, PA, United States

Cragoe, Jr., Edward J., Lansdale, PA, United States

PATENT ASSIGNEE(S): Merck &amp; Co., Inc., Rahway, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4394515		19830719
APPLICATION INFO.:	US 1981-251221		19810406 (6)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1978-917211, filed on 23 Jun 1978, now abandoned which is a continuation-in-part of Ser. No. US 1977-819200, filed on 26 Jul 1977, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Daus, Donald G.		
ASSISTANT EXAMINER:	Springer, D. B.		
LEGAL REPRESENTATIVE:	Linek, Ernest V., Pfeiffer, Hesna J., Arther, Thomas E.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1,2		
LINE COUNT:	1495		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel 7- and 8-R-10,11-dihydro-11-oxodibenzo[b,f]thiepin derivatives are employed in the treatment and control of allergic conditions such as allergic asthma.

IT 71489-94-6P  
(preparation of)

RN 71489-94-6 USPATFULL

CN Dibenzo[b,f]thiepin-3-carboxamide, 10,11-dihydro-N-(methylsulfonyl)-11-oxo-  
(9CI) (CA INDEX NAME)